DACS inc.

COMMERCIAL CONSTRUCTION

MANUFACTURERS OF CORRUGATED STEEL DECKING PRODUCTS

CELLULAR DECK

ROOF DECK

FLOOR DECK

DACS Products Earn Factory Mutual Approval

DACS, Inc. is pleased to announce that several of its deck products have been granted an FM Approval*. FM Approved products are: Type B-Cellular Deck, Type N-Cellular Deck and Roof Deck Types B, N, J and H.

FM APPROVED

"Industrial and commercial companies around the world rely on products and services that are FM Approved and specification tested to protect their properties from loss. The FM APPROVED mark, which is backed by scientific research and testing, tells customers your product conforms to the highest standards." – www.fmglobal.com

Stainless Steel Deck

DACS offers construction decking products in T-304 and T-316 stainless steel for corrosive industrial environments.

T-304

T-304 stainless steel is made with a minimum 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is non-magnetic. The chromium and nickel content provide corrosion and oxidation resistance. DACS T-304 stainless is suitable for use in tobacco mills, chemical processing, food, dairy and beverage industries.

T-316

For severe environments - in addition to the properties of T-304, T-316 contains molybdenum, which increases the corrosion resistance to withstand more corrosive industrial chemicals and solvents. DACS T-316 stainless is ideal for use in pulp and paper industries, textile mills, oil & gas industry, production of inks, chemicals, bleaches and dyes.

Aluminum Deck

DACS also manufactures aluminum decking products, available in many different alloys. Aluminum is lightweight, high strength and corrosion resistant. It is often used in wide-span or large scale structures where weight reduction is an important consideration, without sacrificing the stiffness and strength of steel. Use of aluminum building materials helps projects qualify for green building status under the LEED standards.

DACS, Inc.

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Contents

For the latest SDI standards and publications,
please visit: ***sdi.org***

ABOUT DACS

DACS has over 25 years of manufacturing experience and product knowledge in the steel decking business. Recent expansions of the production facility in Portsmouth,VA will allow us to meet all your steel deck needs with lower production costs and faster lead times.

DACS offers one of the largest product lines of steel decking and services in the country. We focus our attention on having the best customer service department in the industry.

DACS is a member of the Steel Deck Institute, bringing uniformity to the design, manufacture, quality control and construction practices applicable to cold-formed steel decking. All DACS products are manufactured to SDI specifications.

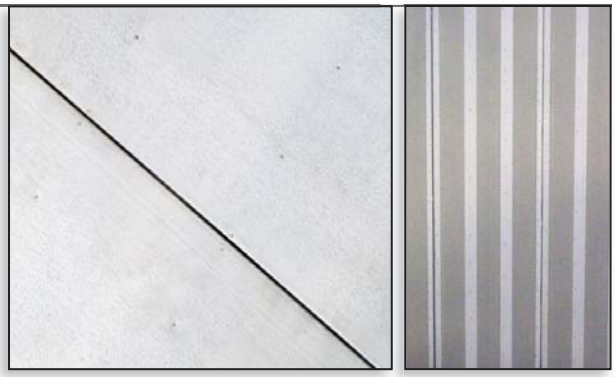
ENGINEERING SERVICES

Whether your project is large or small, DACS, inc. has the technical staff to assist you. If you have application questions or need assistance in using our products in your design, we can help. We provide shop drawings or other submittal information that you may need to complete your project. DACS, inc. employs two certified Professional Engineers, as well as a knowledgeable support staff. Please do not hesitate to contact DACS with your questions.

SPECIALTY DECK PRODUCTS

CELLULAR DECK

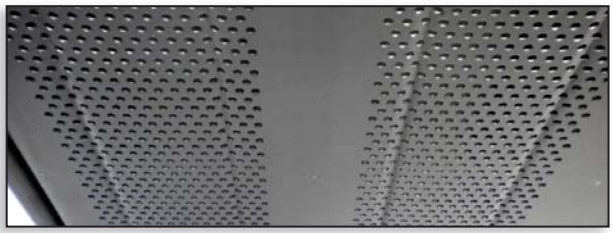
Unlike other manufacturers of cellular deck, DACS utilizes a revolutionary method of mechanically fastening the top and bottom sheet instead of spot welding. This results in a connection that is nearly invisible when installed, and eliminates the need for touch-up painting of unsightly spot welds. Our advanced manufacturing process also helps to shorten lead times.



Ceiling-side of DACS cellular decking

DACS Cellular decking combines the strength of roll formed steel with an aesthetically pleasing bottom plate. It is typically utilized in exposed ceiling areas where a flat bottom ceiling is desired without compromising load capabilities.

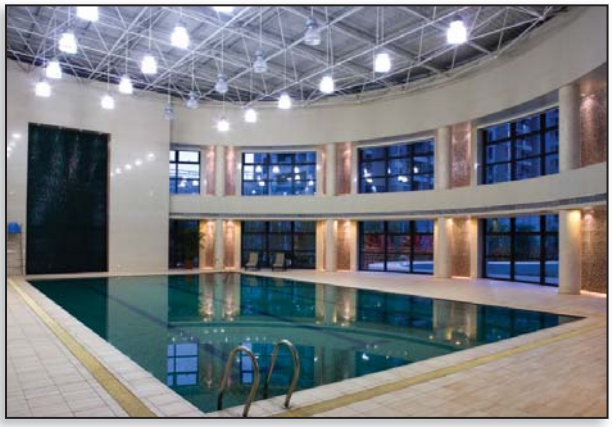
All DACS cellular decking is available in acoustical style, which improves the indoor environmental quality of large rooms by reducing noise pollution. The factory installed, high density acoustical insulation provides ample noise reduction coefficient rating while minimizing or eliminating the need for visible sound baffles.



Optional Stiffening Ribs

Suggested Project Uses:

- School Gymnasiums
- Auditoriums / Theatres
- Classrooms
- Cafeterias
- Conference Rooms
- Office Buildings
- Libraries
- Convention Centers / Exhibit Halls
- Houses of Worship
- Museums
- Shopping Centers
- Natatoriums



Composite Cellular Decking

DACS Composite Cellular Decking is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes under a slab and a composite slab is desired.

DEEP ROOF DECK

DACS Deep Roof Deck, types "H" and "J", are used when span conditions exceed the capabilities of our other roof deck types. DACS Deep Roof Deck is available in 3 steel gage thicknesses and has a 12" cover width. Types H and J are also available as cellular or cellular-acoustical style in 24" cover width.

Suggested Project Uses: Canopies, walkways or other areas where long span capacities are required.

TYPE "B-CELLULAR" *(WIDE RIB)*

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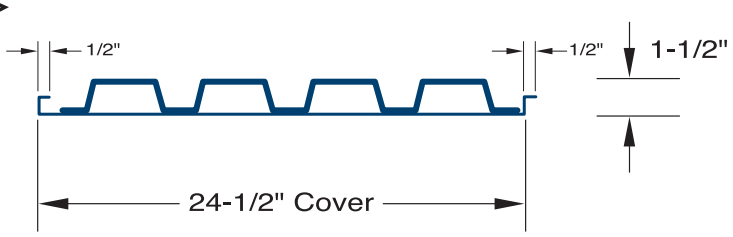

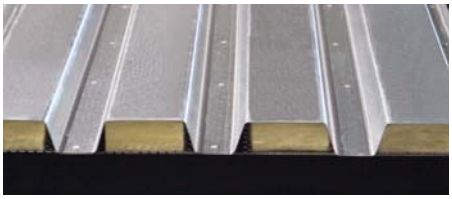

Type "B-Cellular" Acoustical Type Shown

Section Properties (Fy=33 ksi)

Gage Top/Bot	Weight (psf) Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	3.53	0.378	0.455	0.358	0.399
20/18	4.02	0.417	0.504	0.317	0.481
18/20	4.48	0.504	0.551	0.47	0.462
18/18	5.11	0.558	0.611	0.491	0.596
18/16	5.58	0.608	0.668	0.512	0.637
16/18	5.58	0.701	0.717	0.664	0.693
16/16	6.3	0.765	0.784	0.689	0.782

- Section properties calculated in accordance with AISI specifications

Helpful Hint: Type "B" cellular roof deck is mainly utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes.

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.11	.47	.63	.87	.88	.70	**.70**

Gage	Span Cond	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"
20/20	One	125	100	82	69	58	50	44	42	37	34
20/18		116	99	85	74	63	55	48	42	37	34
18/20		163	131	106	88	75	64	55	49	43	39
18/18		180	143	117	97	82	70	60	53	47	42
18/16		187	155	126	105	88	75	65	57	50	44
16/18		223	178	144	129	100	85	73	64	56	50
16/16		243	193	156	129	108	92	79	69	60	53
20/20	Two	146	124	107	93	82	73	65	58	53	48
20/18		176	150	129	113	99	88	78	70	63	57
18/20		169	144	124	108	95	84	75	67	61	55
18/18		218	186	160	140	123	109	97	87	79	71
18/16		233	199	171	149	131	116	104	93	84	76
16/18		254	216	186	162	143	126	113	101	91	83
16/16		286	244	210	183	161	143	127	114	103	93
20/20	Three or More	183	156	134	117	101	86	74	65	57	50
20/18		220	187	160	132	111	94	81	70	62	55
18/20		211	180	155	135	119	105	94	83	72	64
18/18		273	232	200	174	145	122	105	91	79	70
18/16		291	248	214	186	157	132	113	98	85	75
16/18		317	270	233	203	178	151	129	111	97	85
16/16		358	305	263	229	195	164	140	120	105	92

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

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TYPE "N-CELLULAR" *(LONG SPAN)*

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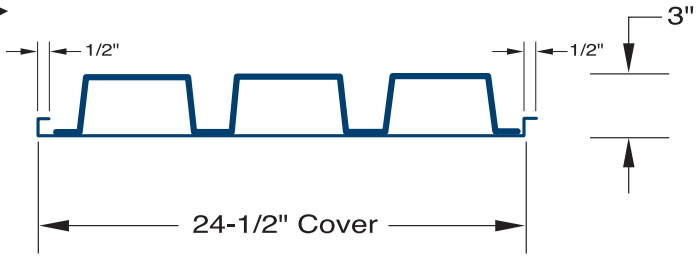

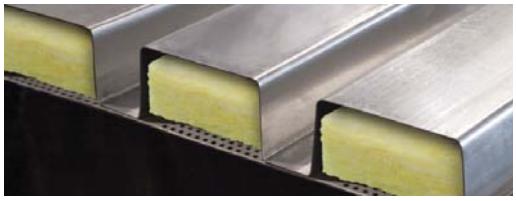

Type "N-Cellular" Acoustical Type Shown

Section Properties (Fy=33 ksi)

Gage Top/Bot	Weight (psf) Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	4.53	1.325	1.421	0.567	0.715
20/18	5.02	1.435	2.042	0.575	0.932
18/20	5.02	1.789	1.734	0.834	0.869
18/18	5.48	1.95	2.482	0.857	1.087
18/16	6.03	2.092	2.685	0.878	1.32
16/18	6.55	2.494	2.542	1.179	1.235
16/16	6.75	2.688	3.157	1.207	1.552

- Section properties calculated in accordance with AISI specifications

Helpful Hint: Type "N" cellular roof deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes, and the spans and loads exceed the capability of type "B" cellular.

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.61	.84	1.19	1.09	.92	.77	**1.0**

Gage	Span Cond	Uniform Total Load in Pounds Per Square Foot (Dead and Live)									
		10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"
20/20	One	75	68	62	56	52	48	44	41	38	36
20/18		76	69	63	57	53	48	45	42	39	36
18/20		110	100	91	83	76	68	62	56	51	47
18/18		113	102	93	85	78	72	67	62	57	52
18/16		116	105	96	87	80	74	68	63	59	55
16/18		155	141	128	117	105	94	85	77	70	64
16/16		159	144	131	120	110	100	90	82	74	68
20/20	Two	94	85	78	71	65	60	56	52	48	45
20/18		123	111	101	93	85	79	73	67	63	58
18/20		114	104	95	87	79	73	68	63	58	54
18/18		143	130	118	108	99	92	85	79	73	68
18/16		174	158	144	131	121	111	103	95	89	83
16/18		163	148	134	123	113	104	96	89	83	77
16/16		204	185	169	155	142	131	121	112	104	97
20/20	Three or More	118	107	97	89	82	75	70	65	60	56
20/18		153	139	127	116	107	98	91	84	78	73
18/20		143	130	118	108	99	92	85	79	73	68
18/18		179	162	148	135	124	115	106	98	91	85
18/16		217	197	180	164	151	139	129	119	111	103
16/18		203	184	168	154	141	130	120	112	104	97
16/16		256	232	211	193	177	164	151	140	130	122

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

TYPE "J" & "J-CELLULAR" *(4 1/2" DEEP ROOF DECK)*

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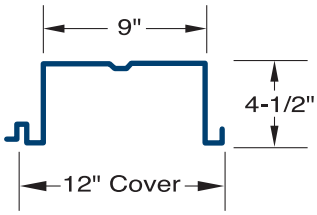
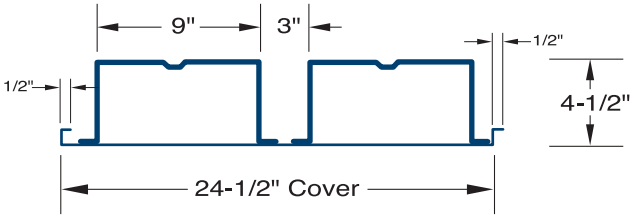
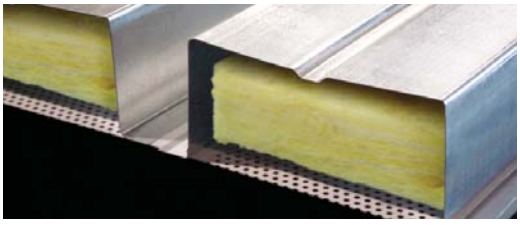


Type "J" Deck



Type "J-Cell" Deck

Acoustical Type Shown



Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In⁴)	In (In⁴)	Sp (In³)	Sn (In³)
20	.0358	2.99	2.5074	3.0054	0.9512	1.1428
18	.0474	3.82	3.5189	4.0067	1.3679	1.5776
16	.0598	4.78	4.6741	5.0735	1.8486	2.0044

- Section properties calculated in accordance with AISI specifications

Gage	Weight (psf) Glv	Ip (In⁴)	In (In⁴)	Sp (In³)	Sn (In³)
20/20	4.4	3.39	2.908	1.039	0.939
20/18	5.21	3.571	4.116	1.042	1.222
18/20	5.22	4.596	3.513	1.477	1.091
18/18	6.04	5.018	4.304	1.486	1.383
18/16	6.4	5.364	6.092	1.657	1.773
16/18	7	6.373	5.018	2.12	1.55
16/16	7.24	6.886	6.634	2.199	1.95

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.67	1.03	1.19	.99	.87	.77	**1.0**

Type	Gage	Single Span Uniform Total Load in Pounds Per Square Foot (Dead and Live)															
		8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"
J	20	109	96	87	79	72	67	62	58	50	44	38	34	31	28	25	24
J	18	184	164	147	134	123	110	94	78	66	58	50	44	39	35	32	29
J	16	284	252	227	206	175	149	122	101	85	72	63	55	48	43	39	35
JC	20/20	109	96	87	79	72	67	62	58	54	48	43	38	34	31	28	26
JC	20/18	109	96	87	79	72	67	62	58	55	49	44	39	35	32	29	27
JC	18/20	184	164	147	134	123	113	100	87	76	68	60	54	48	43	38	35
JC	18/18	184	164	147	134	123	113	101	88	77	69	61	55	49	45	41	37
JC	18/16	184	164	147	134	123	113	105	97	85	76	68	61	54	48	43	39
JC	16/18	284	252	227	206	189	166	143	124	110	95	82	71	62	55	50	45
JC	16/16	284	252	227	206	189	172	148	129	113	101	88	76	67	59	53	47

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the blue shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.
3. Loads shown in the unshaded areas are controlled by a maximum stress of 20 ksi.
4. Loads shown in the beige shaded areas are controlled by web crippling with a minimum 3" bearing.

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TYPE "H" & "H-CELLULAR" *(6" DEEP ROOF DECK)*

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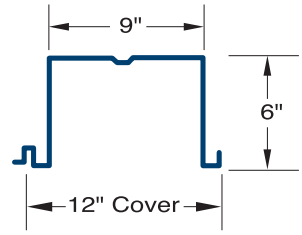
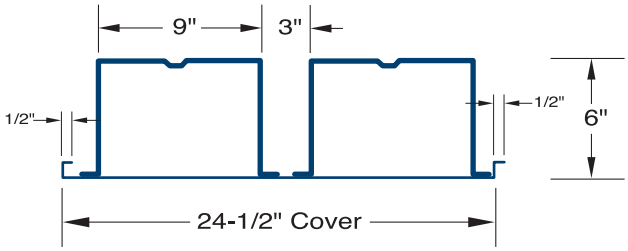
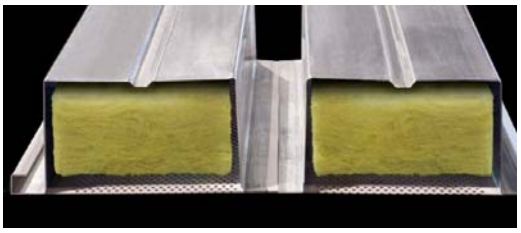


Type "H" Deck



Type "H-Cell" Deck

Acoustical Type Shown



Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
20	.0358	3.37	4.9065	5.7104	1.391	1.614
18	.0474	4.31	6.9754	7.8215	2.0557	2.2796
16	.0598	5.39	9.1359	9.8338	2.7339	2.9773

- Section properties calculated in accordance with AISI specifications

Gage	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
20/20	4.77	6.169	5.391	1.277	1.261
20/18	5.6	6.458	6.781	1.255	1.693
18/20	5.71	8.635	6.579	2.101	1.59
18/18	6.53	9.422	7.849	2.032	1.969
18/16	6.89	10.08	11.216	2.112	2.439
16/18	7.61	11.897	9.214	3.044	2.241
16/16	7.85	12.837	11.051	3.074	2.722

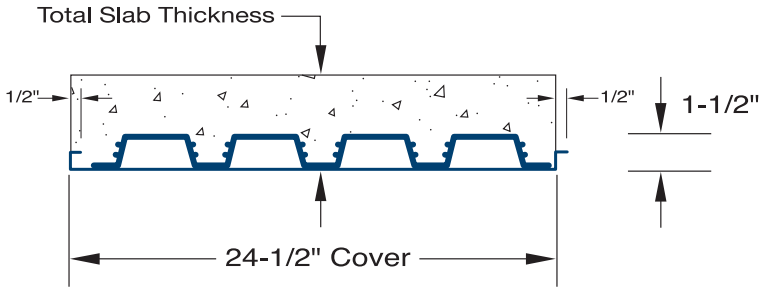
Acoustical Data

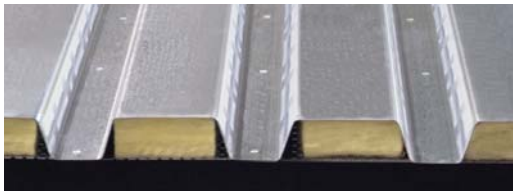
Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.67	1.03	1.19	.99	.87	.77	**1.0**

Type	Gage	Single Span Uniform Total Load in Pounds Per Square Foot (Dead and Live)															
		15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	25'-0"	26'-0"	27'-0"	28'-0"	29'-0"	30'-0"
H	20	55	51	48	46	43	41	39	37	35	32	29	27	25	23	22	20
H	18	95	89	84	79	75	67	59	53	48	43	39	36	33	31	29	27
H	16	145	136	127	115	97	85	75	66	59	53	48	44	40	37	35	32
HC	20/20	55	51	48	46	43	41	38	35	32	29	27	25	23	22	20	19
HC	20/18	55	51	48	46	43	41	39	36	33	30	28	26	24	23	21	20
HC	18/20	95	89	84	79	75	69	63	57	52	48	44	41	38	36	33	31
HC	18/18	95	89	84	79	75	69	63	57	52	48	44	41	38	36	33	31
HC	18/16	95	89	84	79	75	70	63	58	53	49	45	41	38	36	33	31
HC	16/18	145	136	127	121	111	100	91	83	74	66	60	55	50	46	42	39
HC	16/16	145	136	127	121	112	101	92	84	77	70	64	58	53	48	45	42

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the blue shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.
3. Loads shown in the unshaded areas are controlled by a maximum stress of 20 ksi.
4. Loads shown in the beige shaded areas are controlled by web crippling with a minimum 3" bearing.

1-1/2" COMPOSITE CELLULAR





Type 1-1/2" Composite Cellular Acoustical Type Shown

Helpful Hint: Type 1-1/2" composite cellular deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes under a slab and a composite slab is desired.

Section Properties (Fy=40 ksi)

Gage Top/Bot	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	3.53	0.378	0.455	0.358	0.399
20/18	4.02	0.417	0.504	0.369	0.481
18/20	4.48	0.504	0.551	0.47	0.462
18/18	5.11	0.558	0.611	0.491	0.596
18/16	5.58	0.608	0.668	0.512	0.637
16/18	5.58	0.701	0.717	0.664	0.693
16/16	6.3	0.765	0.784	0.689	0.782

- Section properties calculated in accordance with AISI specifications

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.11	.47	.63	.87	.88	.70	**.70**

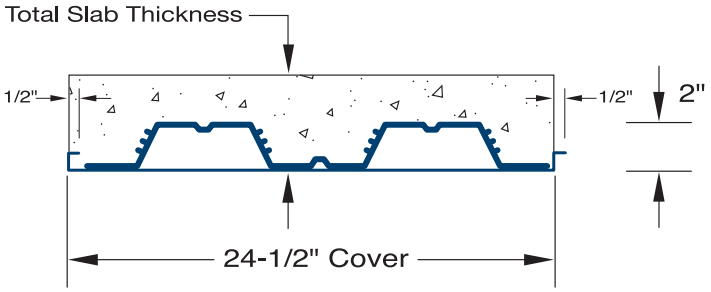
Maximum Allowable Unshored Clear Spans

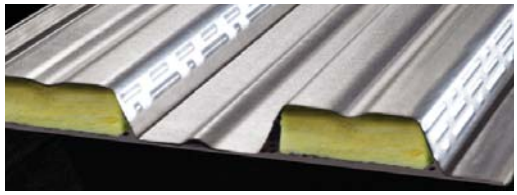
Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
4.0"	20/20	41	7'-6"	10'-1"	10'-4"
	20/18	42	7'-7"	10'-3"	10'-5"
	18/20	42	8'-10"	10'-11"	11'-4"
	18/18	43	8'-11"	12'-2"	12'-4"
	18/16	43	9'-2"	12'-6"	12'-8"
	16/18	43	10'-9"	13'-2"	13'-8"
	16/16	43	10'-11"	14'-0"	14'-7"
4.5"	20/20	47	7'-1"	9'-8"	9'-10"
	20/18	48	7'-2"	9'-9"	9'-11"
	18/20	48	8'-4"	10'-5"	10'-9"
	18/18	49	8'-6"	11'-7"	11'-8"
	18/16	49	8'-8"	11'-10"	12'-0"
	16/18	49	10'-1"	12'-8"	13'-1"
	16/16	50	10'-3"	13'-4"	13'-10"
5.0"	20/20	53	6'-10"	9'-3"	9'-4"
	20/18	54	6'-11"	9'-4"	9'-5"
	18/20	54	7'-11"	10'-0"	10'-4"
	18/18	55	8'-1"	11'-0"	11'-2"
	18/16	55	8'-4"	11'-4"	11'-6"
	16/18	55	9'-8"	12'-2"	12'-7"
	16/16	56	9'-10"	12'-10"	13'-3"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
5.5"	20/20	59	6'-6"	8'-10"	9'-0"
	20/18	60	6'-7"	8'-11"	9'-1"
	18/20	60	7'-7"	9'-7"	9'-11"
	18/18	61	7'-9"	10'-7"	10'-9"
	18/16	61	8'-0"	10'-10"	11'-0"
	16/18	61	9'-3"	11'-8"	12'-0"
	16/16	62	9'-4"	12'-4"	12'-9"
6.0"	20/20	65	6'-3"	8'-7"	8'-8"
	20/18	66	6'-4"	8'-8"	8'-9"
	18/20	66	7'-4"	9'-3"	9'-7"
	18/18	67	7'-6"	10'-3"	10'-4"
	18/16	67	7'-8"	10'-6"	10'-7"
	16/18	67	8'-11"	11'-4"	11'-8"
	16/16	68	9'-0"	11'-11"	12'-4"

For superimposed live load tables, see 1-1/2" Composite Floor Deck - page 16-17

2" COMPOSITE CELLULAR





Type 2" Composite Cellular
Acoustical Type Shown

Helpful Hint: Type 2" composite cellular deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes under a slab and the spans exceed the capability of type 1-1/2"composite cellular deck.

Section Properties (Fy=40 ksi)

Gage Top/Bot	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	3.55	0.609	0.631	0.402	0.404
20/18	4.05	0.663	0.687	0.465	0.454
18/20	4.05	0.774	0.683	0.553	0.517
18/18	4.62	0.845	0.845	0.57	0.558
18/16	5.18	0.909	0.909	0.588	0.602
16/18	5.14	1.002	1.002	0.729	0.678
16/16	6.4	1.08	1.08	0.749	0.743

- Section properties calculated in accordance with AISI specifications

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.39	.54	.87	.98	.79	.71	**.80**

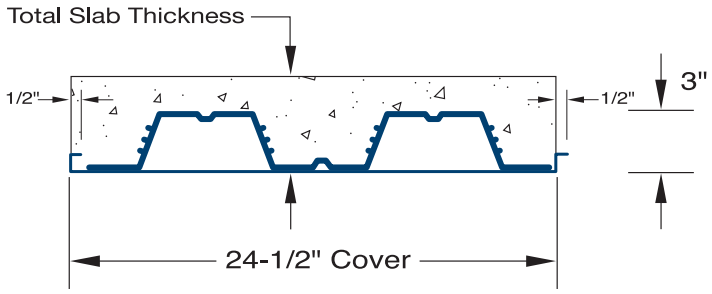
Maximum Allowable Unshored Clear Spans

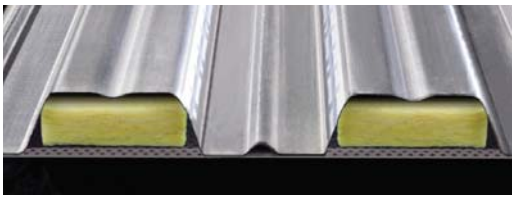
Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
4.5"	20/20	46	7'-8"	9'-11"	10'-3"
	20/18	46	8'-5"	10'-6"	10'-10"
	18/20	46	9'-4"	11'-2"	11'-7"
	18/18	47	9'-5"	11'-7"	11'-11"
	18/16	47	9'-7"	12'-0"	12'-5"
	16/18	47	10'-11"	12'-9"	13'-2"
	16/16	48	11'-0"	13'-3"	13'-8"
5.0"	20/20	52	7'-4"	9'-6"	9'-9"
	20/18	52	8'-0"	10'-0"	10'-5"
	18/20	52	8'-11"	10'-8"	11'-1"
	18/18	53	9'-0"	11'-0"	11'-5"
	18/16	53	9'-2"	11'-6"	11'-10"
	16/18	53	10'-4"	12'-2"	12'-7"
	16/16	54	10'-5"	12'-8"	13'-1"
5.5"	20/20	58	7'-0"	9'-1"	9'-5"
	20/18	58	7'-8"	9'-8"	10'-0"
	18/20	58	8'-6"	10'-4"	10'-8"
	18/18	59	8'-7"	10'-7"	11'-0"
	18/16	59	8'-9"	11'-0"	11'-5"
	16/18	60	9'-10"	11'-8"	12'-0"
	16/16	60	10'-0"	12'-2"	12'-7"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
6.0"	20/20	64	6'-9"	8'-9"	9'-0"
	20/18	64	7'-4"	9'-4"	9'-7"
	18/20	64	8'-2"	9'-11"	10'-3"
	18/18	65	8'-3"	10'-3"	10'-7"
	18/16	65	8'-5"	10'-8"	11'-0"
	16/18	66	9'-5"	11'-3"	11'-7"
	16/16	66	9'-7"	11'-9"	12'-2"
6.5"	20/20	70	6'-6"	8'-6"	8'-9"
	20/18	70	7'-1"	9'-0"	9'-3"
	18/20	70	7'-10"	9'-7"	9'-11"
	18/18	71	7'-11"	9'-11"	10'-3"
	18/16	71	8'-1"	10'-4"	10'-7"
	16/18	72	9'-1"	10'-10"	11'-3"
	16/16	72	9'-3"	11'-4"	11'-9"

For superimposed live load tables, see 2" Composite Floor Deck - page 18-19

3" COMPOSITE CELLULAR





Type 3" Composite Cellular
Acoustical Type Shown

Helpful Hint: Type 3" composite cellular deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes under a slab and the spans exceed the capability of type 2" composite cellular deck.

Section Properties (Fy=40 ksi)

Gage Top/Bot	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
20/20	3.65	1.417	1.296	0.639	0.604
20/18	4.15	1.532	1.532	0.723	0.654
18/20	4.15	1.734	1.466	0.865	0.78
18/18	4.72	1.891	1.891	0.886	0.826
18/16	5.28	2.02	2.02	0.905	0.903
16/18	5.24	2.246	2.246	1.097	1.01
16/16	6.55	2.405	2.405	1.121	1.087

- Section properties calculated in accordance with AISI specifications

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.45	.62	1.1	.98	.78	.65	**.85**

Maximum Allowable Unshored Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
5.5"	20/20	58	9'-3"	11'-1"	11'-6"
	20/18	58	9'-11"	11'-7"	11'-11"
	18/20	58	11'-0"	12'-8"	13'-1"
	18/18	59	11'-1"	12'-11"	13'-4"
	18/16	59	11'-2"	13'-6"	14'-0"
	16/18	60	12'-5"	14'-3"	14'-8"
	16/16	60	12'-6"	14'-9"	15'-3"
6.0"	20/20	64	8'-10"	10'-9"	11'-1"
	20/18	64	9'-6"	11'-2"	11'-6"
	18/20	64	10'-6"	12'-2"	12'-7"
	18/18	65	10'-7"	12'-6"	12'-10"
	18/16	65	10'-9"	13'-0"	13'-6"
	16/18	66	11'-11"	13'-9"	14'-2"
	16/16	66	12'-0"	14'-3"	14'-8"
6.5"	20/20	70	8'-6"	10'-4"	10'-9"
	20/18	70	9'-1"	10'-9"	11'-2"
	18/20	70	10'-1"	11'-9"	12'-2"
	18/18	71	10'-2"	12'-1"	12'-6"
	18/16	71	10'-4"	12'-7"	13'-0"
	16/18	71	11'-6"	13'-4"	13'-9"
	16/16	72	11'-7"	13'-9"	14'-3"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
7.0"	20/20	76	8'-2"	10'-0"	10'-4"
	20/18	76	8'-10"	10'-5"	10'-10"
	18/20	76	9'-9"	11'-5"	11'-9"
	18/18	77	9'-10"	11'-8"	12'-1"
	18/16	77	10'-0"	12'-2"	12'-7"
	16/18	77	11'-1"	12'-11"	13'-4"
	16/16	78	11'-2"	13'-4"	13'-9"
7.5"	20/20	82	7'-11"	9'-9"	10'-1"
	20/18	82	8'-6"	10'-2"	10'-6"
	18/20	82	9'-5"	11'-1"	11'-5"
	18/18	83	9'-7"	11'-4"	11'-9"
	18/16	83	9'-8"	11'-10"	12'-3"
	16/18	83	10'-9"	12'-6"	12'-11"
	16/16	84	10'-10"	12'-11"	13'-4"

For superimposed live load tables, see 3" Composite Floor Deck - page 20-21

ROOF, FLOOR & COMPOSITE DECK PRODUCTS

ROOF DECK

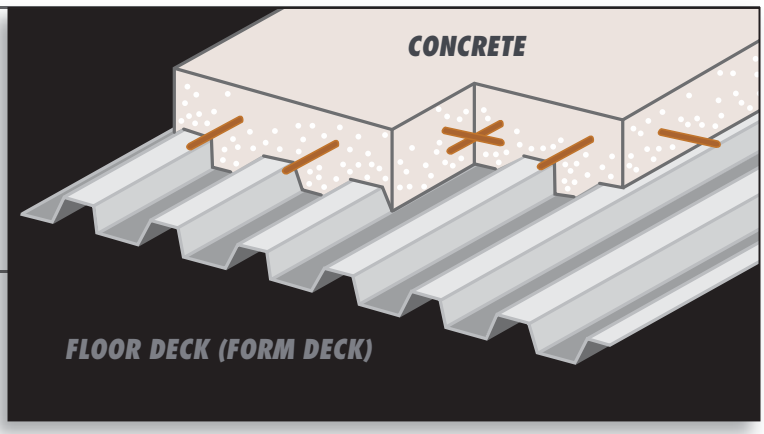
Roof Deck provides a support surface for roofing materials, and serves as a secondary structural member to aid in lateral force distribution. DACS manufactures a full range of sizes and shapes for new construction or to accommodate retrofitting and expansion of older buildings.

COMPOSITE FLOOR DECK

A permanent form for concrete slab pouring, available in 3 profiles.

NON-COMPOSITE FLOOR DECK

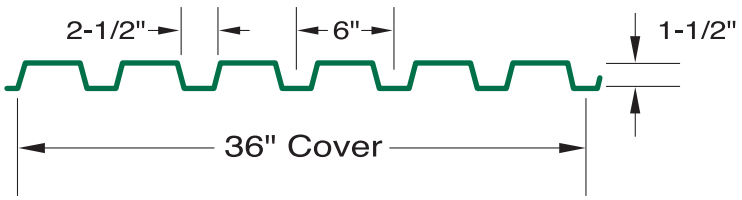
For concrete pouring of floors and mezzanines, 3 profiles available.



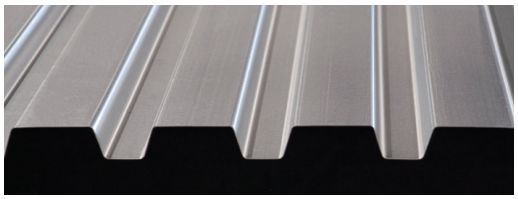
STEEL JOISTS, GIRDERS & COMPOSITE JOIST SYSTEMS ALSO AVAILABLE

TYPE "B" ROOF DECK *(WIDE RIB)*

FM APPROVED

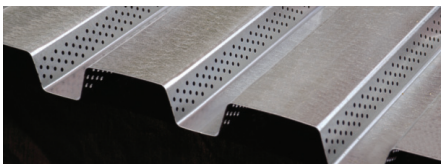


30" Cover, 24" Cover and acoustical type also available



Type "B"

Helpful Hint: Type "B" deck is the deck of choice for the majority of roofing applications. It is our most commonly sold product.



Type "B Acoustical" (wide rib perforated)

NOTE: Type "B Acoustical" is not FM Approved

Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Ptd	Weight (psf) Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.58	1.61	0.1591	0.1891	0.1877	0.196
20	.0358	1.98	2.04	0.2067	0.2305	0.2327	0.2458
18	.0474	2.60	2.70	0.2981	0.3061	0.3166	0.3263
16	.0598	3.10	3.20	0.3869	0.3869	0.4063	0.4104
14	.0747	4.00	4.10	0.4845	0.4845	0.51	0.51
12	.1046	5.80	5.95	0.6819	0.6819	0.707	0.707

- Section properties calculated in accordance with AISI specifications

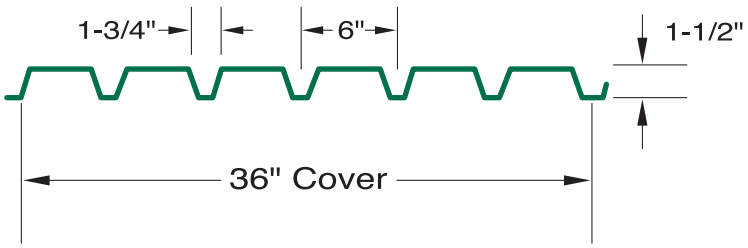
Acoustical Data: Type "B Acoustical"

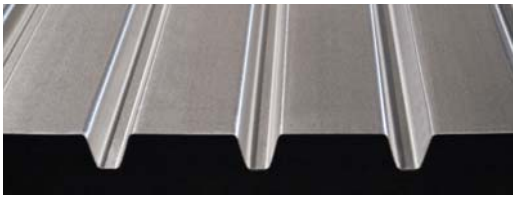
Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.14	.19	.45	.92	.54	.31	**.55**

Gage	Span Cond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
22	One	5'-9"	92	72	57	47	40	34	30				
20		6'-6"	116	90	71	58	48	41	36	31			
18		7'-9"	162	124	98	79	65	55	47	41	36	32	
16		8'-9"		155	122	98	80	67	57	49	43	38	34
14		9'-8"		192	150	120	98	82	69	59	51	45	40
12		11'-8"				165	134	111	93	79	68	59	52
22	Two	6'-8"	100	83		69	59	51	44	39	34	31	
20		7'-7"	123	102	85	73	63	54	48	42	38	34	30
18		9'-1"	165	136	114	97	84	73	64	57	50	45	41
16		10'-3"		172	145	123	106	92	81	72	64	57	52
14		11'-6"			180	153	132	115	101	89	80	71	64
12		13'-7"					183	159	140	124	110	99	89
22	Three or More	6'-8"	125	104	87	74	64	55	48	41	36	32	
20		7'-7"	154	127	107	91	78	68	59	51	44	39	35
18		9'-1"		170	143	122	105	91	80	68	59	52	46
16		10'-3"			181	154	133	116	99	84	73	63	55
14		11'-6"				191	165	144	122	103	88	77	67
12		13'-7"						199	168	141	120	104	90

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

TYPE "F" ROOF DECK *(INTERMEDIATE RIB)*





Helpful Hint: Type "F" deck is typically used when 2" or less of roof insulation is present to prevent insulation damage over the deck valleys.

Section Properties (Fy=33 ksi)

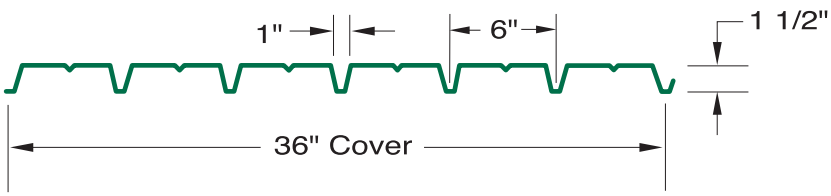
Gage	Design Thickness	Weight (psf) Ptd	Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.58	1.61	0.1307	0.1523	0.1307	0.1419
20	.0358	1.98	2.04	0.1689	0.1851	0.1625	0.1728
18	.0474	2.60	2.70	0.2412	0.2458	0.2218	0.2285
16	.0598	3.10	3.20	0.3109	0.3109	0.2851	0.2875

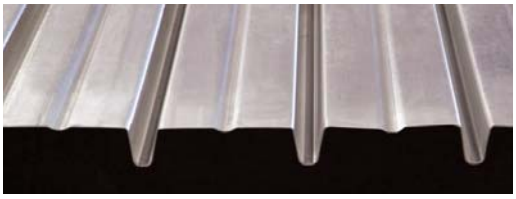
- Section properties calculated in accordance with AISI specifications

Gage	Span Cond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
22	One	5'-2"	70	58	49	41	35	30					
20		6'-0"	87	72	60	50	42	36	31				
18		7'-1"	119	98	82	68	56	48	41	36	32		
16		8'-1"	153	126	105	85	70	58	50	43	38	34	30
22	Two	6'-2"	76	63	53	45	39	34					
20		7'-1"	92	76	64	54	47	41	36	32			
18		8'-4"	122	101	85	72	62	54	47	42	37	33	30
16		9'-5"	154	127	107	91	78	68	60	53	47	42	38
22	Three or More	6'-2"	95	79	66	56	48	42	37	33			
20		7'-1"	115	95	80	68	59	51	45	40	35	32	
18		8'-4"	153	126	106	90	78	68	59	53	47	42	38
16		9'-5"	192	159	134	114	98	85	75	66	59	53	48

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

TYPE "A" ROOF DECK *(NARROW RIB)*





30" Cover also available

Helpful Hint: Type "A" deck is mainly used as a retrofit to match existing deck.

Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Ptd	Weight (psf) Galv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.65	1.70	0.1463	0.1463	0.128	0.1297
20	.0358	2.09	2.15	0.1779	0.1779	0.1564	0.1574
18	.0474	2.71	2.80	0.2366	0.2366	0.2083	0.2083
16	.0598	3.30	3.40	0.2998	0.2998	0.2627	0.2627

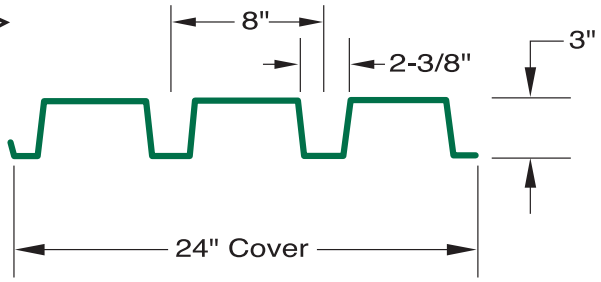
- Section properties calculated in accordance with AISI specifications

Gage	Span Cond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"
22	One	5'-5"	108	85	69	57	48	41	35	30			
20		6'-0"	131	104	84	69	58	49	43	37	32		
18		6'-11"	174	137	111	92	77	65	54	46	39	34	30
16		7'-9"		173	140	116	97	80	66	55	47	41	36
22	Two	6'-4"	108	85	69	57	48	40	35	30			
20		7'-0"	131	103	84	69	58	49	42	37	32		
18		8'-1"	174	137	111	92	77	66	56	49	43	38	34
16		9'-1"		173	140	116	97	83	71	62	54	48	43
22	Three or More	6'-4"	135	106	86	71	60	51	44	38	33		
20		7'-0"	164	129	105	86	73	62	53	46	41	36	32
18		8'-1"		172	139	115	96	82	71	62	54	48	43
16		9'-1"			175	145	122	104	89	78	68	60	54

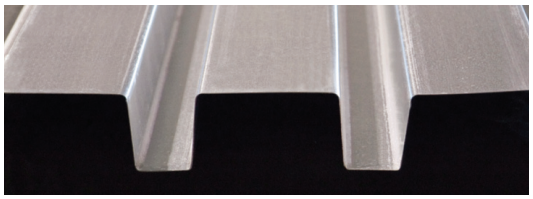
Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

TYPE "N" ROOF DECK *(LONG SPAN)*

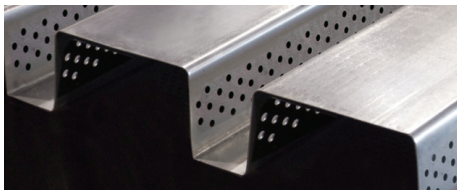
FM APPROVED



Acoustical Type also available



Type "N"



Type "N Acoustical" (long span perforated)

NOTE: Type "N Acoustical" is not FM Approved

Helpful Hint: Type "N" deck is used when the support spacing exceeds the recommended spacing for "B" type deck.

Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Ptd	Weight (psf) Galv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
22	.0295	2.01	2.05	0.6152	0.8158	0.3604	0.4129
20	.0358	2.58	2.65	0.7921	1.0216	0.4748	0.5311
18	.0474	3.20	3.40	1.1625	1.3695	0.7027	0.7502
16	.0598	4.10	4.25	1.5909	1.7448	0.9132	0.958
14	.0747	5.12	5.35	2.126	2.186	1.1704	1.2091
12	.1046	7.17	7.40	3.0732	3.0732	1.6874	1.6923

- Section properties calculated in accordance with AISI specifications

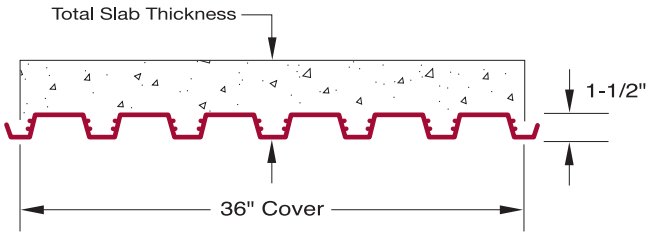
Acoustical Data: Type "N Acoustical"

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	
.20	.30	.68	.81	.46	.38	**.55**

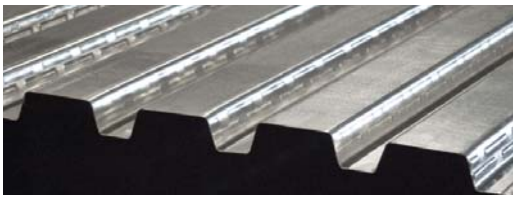
Gage	Span Cond	Max SDI Const Sp	Uniform Total Load in Pounds Per Square Foot (Dead and Live)										
			9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
22	One	11'-3"	57	51	46	42	38	35	32				
20		12'-9"	76	68	61	55	49	44	40	36	33	31	
18		15'-5"	111	98	85	75	67	59	53	48	44	40	37
16		18'-0"	145	130	113	99	88	78	70	63	57	52	47
14		20'-10"	187	168	148	129	114	101	90	81	73	66	60
12		25'-0"				183	160	141	125	112	101	91	83
22	Two	13'-3"	70	62	56	51	46	42	39	36	33	31	
20		15'-0"	88	79	71	64	59	54	49	45	42	39	36
18		18'-2"	122	109	98	89	81	74	68	63	58	54	50
16		22'-0"	155	139	125	114	103	95	87	80	74	68	64
14		24'-7"	194	174	157	143	130	119	109	101	93	86	80
12		29'-6"				199	182	166	153	141	130	120	112
22	Three or More	13'-3"	87	78	70	64	58	53	49	45	42	38	36
20		15'-0"	110	99	89	81	73	67	62	57	52	49	45
18		18'-2"	152	136	123	112	102	93	85	79	73	67	62
16		22'-0"	194	174	157	142	129	118	109	100	93	86	80
14		24'-7"			197	178	163	149	137	126	116	108	100
12		29'-6"							191	176	162	151	140

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Loads shown in the shaded areas are governed by the live load deflection not in excess of 1/240 of the span. A dead load of 10 psf has been included.

1 1/2" COMPOSITE DECK *NORMAL WEIGHT CONCRETE (145 pcf)*



30" Cover and Integral Hangar Tabs also available



Helpful Hint: 1-1/2" Composite deck is used when the slab and support to support distance are both moderate in size.

Section Properties (Fy=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
22	.0295	1.61	0.1536	0.1888	0.1818	0.1902
20	.0358	2.04	0.2	0.2301	0.23	0.2433
18	.0474	2.70	0.2903	0.3061	0.3134	0.3256
16	.0598	3.20	0.3869	0.3869	0.4029	0.4104

- Section properties calculated in accordance with AISI specifications

Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
4.0"	22	5'-3"	6'-12"	7'-0"	400	397	329	276	234	200	173	150	130	114	100
	20	6'-1"	8'-1"	8'-3"	400	400	395	332	283	242	210	182	160	140	124
	18	7'-4"	9'-7"	9'-11"	400	400	400	400	347	298	259	226	198	175	155
	16	8'-6"	10'-9"	11'-1"	400	400	400	400	376	324	281	246	216	191	169
4.5"	22	5'-4"	7'-2"	7'-3"	400	400	400	340	289	247	213	185	162	142	125
	20	6'-3"	8'-4"	8'-5"	400	400	400	400	349	299	259	226	198	174	154
	18	7'-7"	9'-10"	10'-2"	400	400	400	400	400	369	320	280	246	217	193
	16	8'-9"	10'-12"	11'-4"	400	400	400	400	400	400	349	305	268	237	211
5.0"	22	4'-9"	6'-4"	6'-5"	400	400	400	400	345	296	255	222	194	170	150
	20	5'-6"	7'-4"	7'-5"	400	400	400	400	400	358	310	271	237	209	185
	18	6'-7"	8'-8"	8'-12"	400	400	400	400	400	400	384	336	295	261	232
	16	7'-8"	9'-9"	10'-1"	400	400	400	400	400	400	400	367	324	286	255
5.5"	22	4'-6"	6'-1"	6'-2"	400	400	400	400	400	345	298	260	227	199	176
	20	5'-3"	7'-1"	7'-2"	400	400	400	400	400	400	363	317	278	245	217
	18	6'-3"	8'-4"	8'-7"	400	400	400	400	400	400	400	394	347	307	273
	16	7'-3"	9'-4"	9'-8"	400	400	400	400	400	400	400	400	380	337	300
6.0"	22	4'-4"	5'-10"	5'-11"	400	400	400	400	400	396	342	298	261	229	202
	20	5'-0"	6'-9"	6'-10"	400	400	400	400	400	400	400	364	320	282	250
	18	6'-0"	8'-0"	8'-3"	400	400	400	400	400	400	400	400	399	353	314
	16	6'-12"	8'-12"	9'-3"	400	400	400	400	400	400	400	400	400	389	346

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

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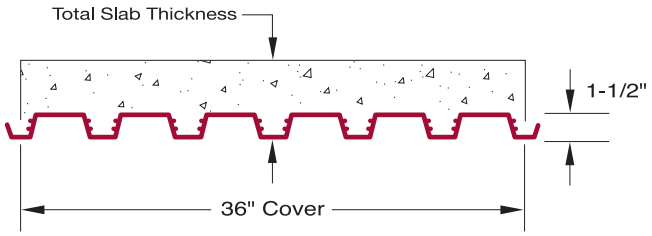
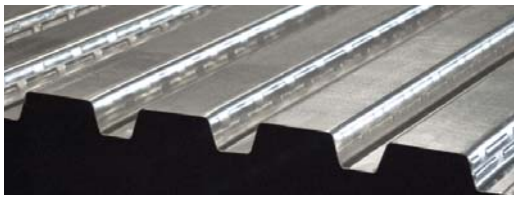
1 1/2" COMPOSITE DECK *LIGHT WEIGHT CONCRETE (115 pcf)*



30" Cover and Integral Hangar Tabs also available



Helpful Hint: 1-1/2" Composite deck is used when the slab and support to support distance are both moderate in size.

Section Properties (Fy=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
22	.0295	1.61	0.1536	0.1888	0.1818	0.1902
20	.0358	2.04	0.2	0.2301	0.23	0.2433
18	.0474	2.70	0.2903	0.3061	0.3134	0.3256
16	.0598	3.20	0.3869	0.3869	0.4029	0.4104

- Section properties calculated in accordance with AISI specifications

Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
4.0"	22	5'-7"	7'-6"	7'-7"	400	384	319	268	228	196	169	147	129	113	100
	20	6'-7"	8'-9"	8'-10"	400	400	380	321	273	235	204	178	156	138	122
	18	7'-12"	10'-4"	10'-8"	400	400	400	389	332	286	249	219	192	170	151
	16	9'-3"	11'-6"	11'-11"	400	400	400	400	358	309	269	235	207	184	163
4.5"	22	5'-4"	7'-2"	7'-3"	400	400	394	331	282	242	210	183	160	141	125
	20	6'-3"	8'-4"	8'-5"	400	400	400	397	339	291	253	221	194	172	152
	18	7'-7"	9'-10"	10'-2"	400	400	400	400	400	356	309	271	239	211	188
	16	8'-9"	10'-12"	11'-4"	400	400	400	400	400	385	335	293	259	229	204
4.75"	22	5'-3"	6'-12"	7'-1"	400	400	400	364	310	266	231	201	176	155	138
	20	6'-1"	8'-2"	8'-3"	400	400	400	400	372	321	278	243	214	189	168
	18	7'-4"	9'-7"	9'-11"	400	400	400	400	400	392	341	298	263	233	208
	16	8'-7"	10'-9"	11'-2"	400	400	400	400	400	400	369	324	286	253	226
5.0"	22	5'-1"	6'-10"	6'-11"	400	400	400	397	338	291	252	220	193	170	151
	20	5'-11"	7'-12"	8'-1"	400	400	400	400	400	350	304	266	234	207	184
	18	7'-2"	9'-5"	9'-9"	400	400	400	400	400	400	373	327	288	255	227
	16	8'-4"	10'-6"	10'-11"	400	400	400	400	400	400	400	355	313	278	248
5.75"	22	4'-10"	6'-6"	6'-6"	400	400	400	400	400	366	317	277	243	215	190
	20	5'-7"	7'-6"	7'-7"	400	400	400	400	400	400	383	336	295	262	233
	18	6'-9"	8'-11"	9'-2"	400	400	400	400	400	400	400	400	365	324	289
	16	7'-10"	9'-11"	10'-3"	400	400	400	400	400	400	400	400	398	354	316

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

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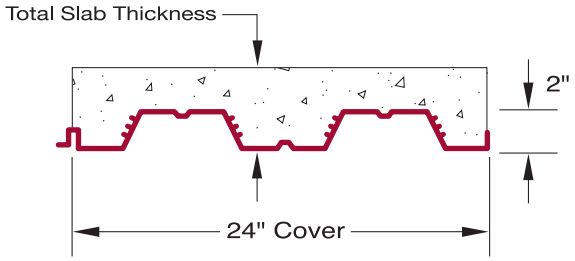
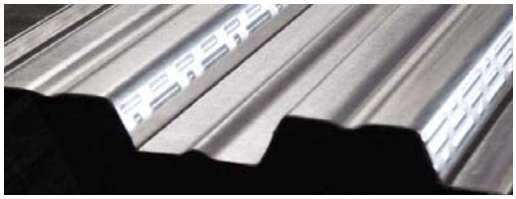
2" COMPOSITE DECK *NORMAL WEIGHT CONCRETE (145 pcf)*



Integral Hangar Tabs also available



Helpful Hint: 2" Composite deck is used when the spans and loads exceed the capability of 1-1/2" Composite deck.

Section Properties (Fy=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.65	0.3233	0.3147	0.2547	0.278
20	.0358	2.05	0.4047	0.4	0.3248	0.3641
18	.0474	2.70	0.5585	0.555	0.4615	0.4984
16	.0598	3.30	0.7145	0.7018	0.6154	0.6328

- Section properties calculated in accordance with AISI specifications

Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
4.5"	22	6'-1"	8'-3"	8'-4"	296	254	219	190	166	146	128	113	100	89	79
	20	7'-1"	9'-7"	9'-8"	358	308	267	232	204	179	159	141	125	112	100
	18	8'-9"	11'-2"	11'-7"	400	400	350	306	269	238	212	189	169	152	137
	16	10'-4"	12'-7"	13'-0"	400	400	400	380	335	298	265	237	213	192	174
5.0"	22	5'-10"	7'-6"	7'-10"	352	302	261	227	198	174	153	136	120	107	95
	20	6'-9"	9'-2"	9'-3"	400	366	317	277	243	214	189	168	150	134	120
	18	8'-3"	10'-8"	11'-1"	400	400	400	365	321	284	253	226	202	182	164
	16	9'-9"	12'-0"	12'-5"	400	400	400	400	400	355	317	284	255	230	208
5.5"	22	5'-7"	6'-11"	7'-2"	400	351	304	264	231	203	179	159	141	125	112
	20	6'-5"	8'-9"	8'-10"	400	400	369	322	283	250	221	197	175	157	141
	18	7'-11"	10'-3"	10'-7"	400	400	400	400	375	332	295	264	237	213	192
	16	9'-4"	11'-6"	11'-11"	400	400	400	400	400	400	371	332	299	270	244
6.0"	22	5'-4"	6'-5"	6'-8"	400	400	347	302	265	233	206	182	162	144	129
	20	6'-2"	8'-5"	8'-6"	400	400	400	369	324	286	254	226	202	180	162
	18	7'-7"	9'-10"	10'-2"	400	400	400	400	400	381	339	303	272	245	221
	16	8'-11"	11'-1"'	11'-5"	400	400	400	400	400	400	400	382	344	311	281
6.5"	22	5'-3"	5'-11"	6'-2"	400	400	392	342	299	263	233	206	183	163	146
	20	6'-0"	8'-1"	8'-2"	400	400	400	400	367	324	287	256	228	205	184
	18	7'-5"	9'-6"	9'-9"	400	400	400	400	400	400	384	344	309	278	251
	16	8'-8"	10'-8"	11'-0"	400	400	400	400	400	400	400	400	390	353	320

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

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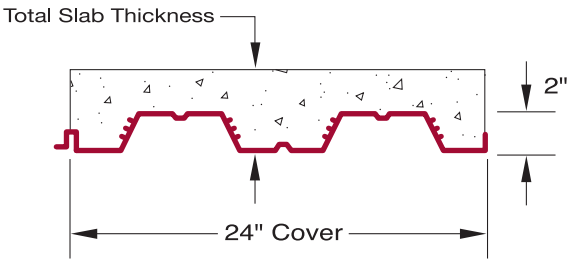
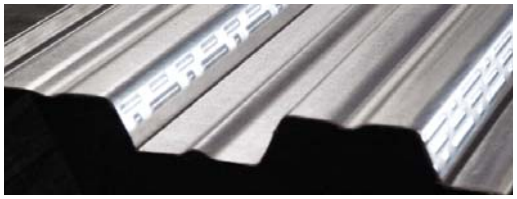
2" COMPOSITE DECK *LIGHT WEIGHT CONCRETE (115 pcf)*



Integral Hangar Tabs also available



Helpful Hint: 2" Composite deck is used when the spans and loads exceed the capability of 1-1/2" Composite deck.

Section Properties (Fy=40 ksi)

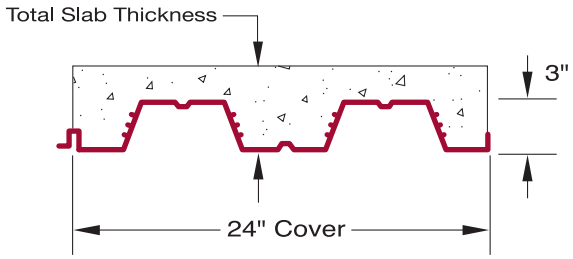
Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
22	.0295	1.65	0.3233	0.3147	0.2547	0.278
20	.0358	2.05	0.4047	0.4	0.3248	0.3641
18	.0474	2.70	0.5585	0.555	0.4615	0.4984
16	.0598	3.30	0.7145	0.7018	0.6154	0.6328

- Section properties calculated in accordance with AISI specifications

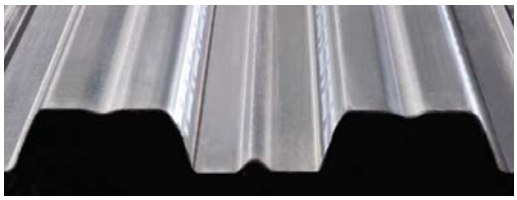
Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
4.5"	22	6'-8"	8'-11"	9'-0"	291	250	216	189	165	146	129	114	102	91	81
	20	7'-9"	10'-4"	10'-6"	349	301	261	228	201	177	157	140	125	112	101
	18	9'-7"	12'-1"	12'-6"	400	390	339	297	262	233	207	186	167	150	136
	16	11'-4"	13'-7"	13'-9"	400	400	400	366	324	288	257	230	200	175	154
5.0"	22	6'-4"	8'-6"	8'-8"	346	297	258	225	197	174	154	137	122	109	98
	20	7'-4"	9'-11"	10'-1"	400	358	311	272	239	212	188	168	150	135	121
	18	9'-1"	11'-7"	10'-12"	400	400	400	355	313	278	248	222	200	180	163
	16	10'-9"	13'-0"	13'-4"	400	400	400	400	387	344	308	276	249	225	204
5.25"	22	6'-3"	8'-4"	8'-5"	374	322	279	243	214	189	167	149	133	119	106
	20	7'-2"	9'-9"	9'-10"	400	388	337	295	259	229	204	182	163	146	132
	18	8'-11"	11'-4"	11'-9"	400	400	400	385	340	301	269	241	217	195	177
	16	10'-6"	12'-9"	13'-2"	400	400	400	400	400	374	334	300	270	244	222
5.5"	22	6'-1"	8'-2"	8'-3"	400	347	301	262	230	203	180	160	143	128	115
	20	7'-1"	9'-6"	9'-8"	400	400	363	318	280	248	220	197	176	158	143
	18	8'-8"	11'-1"	11'-6"	400	400	400	400	366	325	290	260	234	211	191
	16	10'-3"	12'-6"	12'-11"	400	400	400	400	400	400	361	324	292	264	240
6.25"	22	5'-9"	7'-4"	7'-7"	400	400	367	321	282	249	221	197	176	157	141
	20	6'-8"	9'-0"	9'-1"'	400	400	400	389	342	303	270	241	216	194	175
	18	8'-2"	10'-6"	10'-11"	400	400	400	400	400	399	356	320	288	260	235
	16	9'-7"	11'-10"	12'-3"	400	400	400	400	400	400	400	399	360	326	296

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

3" COMPOSITE DECK *NORMAL WEIGHT CONCRETE (145 pcf)*



36" Cover and Integral Hangar Tabs also available



Helpful Hint: 3" Composite deck is used when the spans and loads exceed the capabilities of 1-1/2" and 2" Composite deck.

Section Properties (Fy=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.75	0.7744	0.7467	0.4182	0.4584
20	.0358	2.03	0.9659	0.9396	0.5315	0.5634
18	.0474	2.75	1.2947	1.2659	0.7474	0.7548
16	.0598	3.50	1.6351	1.5984	0.9869	0.9558

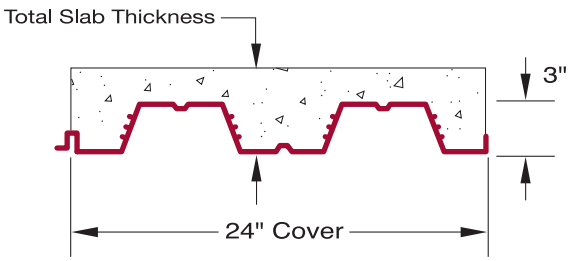
- Section properties calculated in accordance with AISI specifications

Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
5.5"	22	7'-10"	7'-5"	7'-9"	202	177	156	138	123	109	97	86	77	69	61
	20	9'-0"	10'-7"	11'-0"	247	218	193	172	153	137	122	110	99	89	80
	18	10'-11"	13'-2"	13'-8"	327	289	257	230	206	185	167	151	136	124	112
	16	12'-9"	14'-9"	15'-3"	400	361	322	288	259	234	212	192	174	159	145
6.0"	22	7'-6"	6'-10"	7'-1"	234	206	181	161	143	127	113	101	90	81	72
	20	8'-7"	9'-9"	10'-2"	287	253	224	199	178	159	143	128	115	104	94
	18	10'-5"	12'-7"	13'-1"	378	335	298	267	239	215	194	175	159	144	131
	16	12'-2"	14'-2"	14'-8"	400	400	373	335	301	272	246	223	203	185	169
6.5"	22	7'-2"	6'-4"	6'-7"	268	235	208	184	164	146	130	116	104	93	83
	20	8'-3"	8'-12"	9'-4"	328	289	256	228	204	182	164	147	133	120	108
	18	9'-12"	12'-2"	12'-7"	400	384	342	306	274	247	223	202	183	166	151
	16	11'-7"	13'-7"	14'-1"	400	400	400	384	345	312	283	257	234	213	195
7.0"	22	6'-12"	5'-10"	6'-1"	302	266	235	209	185	165	148	132	118	106	95
	20	8'-0"	8'-4"	8'-8"	370	327	290	258	231	207	186	167	151	136	123
	18	9'-8"	11'-8"	12'-1"	400	400	387	346	310	280	253	229	208	189	172
	16	11'-3"	13'-2"	13'-7"	400	400	400	400	391	354	321	291	265	242	222
7.5"	22	6'-10"	5'-6"	5'-9"	338	298	263	234	208	185	166	148	133	119	107
	20	7'-10"	7'-10"	8'-1"	400	366	325	289	259	232	208	188	169	153	138
	18	9'-5"	11'-3"	11'-8"	400	400	400	387	348	314	283	257	233	212	193
	16	11'-0"	12'-8"	13'-2"	400	400	400	400	400	397	360	327	298	272	249

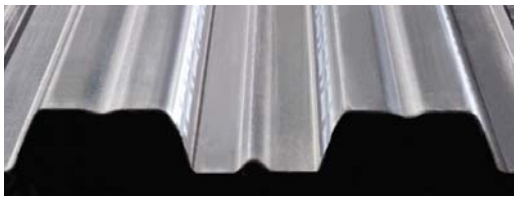
Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

For the latest SDI standards and publications, please visit: ***sdi.org***

3" COMPOSITE DECK *LIGHT WEIGHT CONCRETE (115 pcf)*



36" Cover and Integral Hangar Tabs also available



Helpful Hint: 3" Composite deck is used when the spans and loads exceed the capabilities of 1-1/2" and 2" Composite deck.

Section Properties (Fy=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip(In^4)	In(In^4)	Sp(In^3)	Sn(In^3)
22	.0295	1.75	0.7744	0.7467	0.4182	0.4584
20	.0358	2.03	0.9659	0.9396	0.5315	0.5634
18	.0474	2.75	1.2947	1.2659	0.7474	0.7548
16	.0598	3.50	1.6351	1.5984	0.9869	0.9558

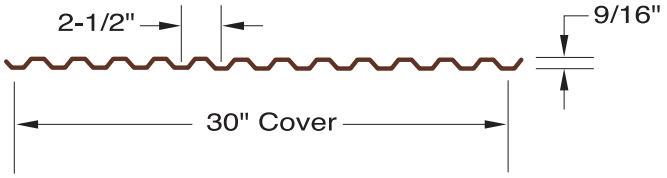
- Section properties calculated in accordance with AISI specifications

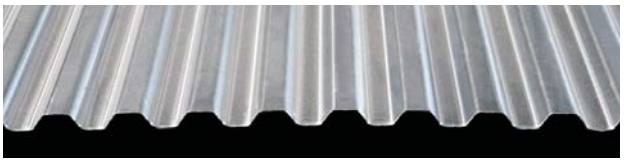
Slab Depth	Gage	Max Unshored Clear Span			Superimposed Live Load in Pounds Per Square Foot										
		One	Two	Three	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
5.5"	22	8'-7"	8'-9"	9'-1"	201	177	157	139	124	111	100	89	80	72	65
	20	9'-11"	12'-4"	12'-9"	244	216	192	171	153	137	124	112	101	91	83
	18	12'-1"	14'-3"	14'-9"	318	283	252	226	203	183	166	150	136	124	113
	16	14'-1"	16'-0"	16'-5"	393	350	312	280	253	229	207	189	172	157	144
6.0"	22	8'-3"	8'-1"	8'-5"	233	205	182	162	145	129	116	104	94	85	76
	20	9'-6"	11'-6"	11'-11"	283	250	222	199	178	160	144	130	118	107	97
	18	11'-6"	13'-9"	14'-2"	369	328	293	262	236	213	193	175	159	145	132
	16	13'-5"	15'-5"	15'-11"	400	400	363	326	294	266	241	220	200	183	168
6.25"	22	8'-1"	7'-9"	8'-1"	249	220	195	174	155	139	125	112	101	91	82
	20	9'-3"	11'-1"	11'-6"	303	268	239	213	191	172	155	140	127	115	104
	18	11'-3"	13'-6"	13'-11"	396	351	314	281	253	228	207	188	171	156	142
	16	13'-1"	15'-1"	15'-7"	400	400	389	350	315	285	259	236	215	197	180
6.5"	22	7'-11"	7'-6'	7'-10"	266	235	209	186	166	149	134	120	108	98	88
	20	9'-1"	10'-8"	11'-1"	324	286	255	228	204	184	166	150	135	123	112
	18	10'-12"	13'-3"	13'-8"	400	376	335	301	270	244	221	201	183	167	152
	16	12'-10"	14'-10"	15'-4"	400	400	400	374	337	305	277	252	230	211	193
7.25"	22	7'-5"	6'-9"	7'-1"	319	282	250	223	200	179	161	145	131	118	107
	20	8'-7"	9'-8"	10'-0"	388	343	306	273	245	221	199	180	163	148	135
	18	10'-4"	12'-7"	12'-12"	400	400	400	361	325	294	266	242	220	201	184
	16	12'-1"	14'-1"	14'-7"	400	400	400	400	400	368	334	304	278	255	234

Notes:
1. Load tables are calculated using section properties based on the steel design thickness shown in the Steel Deck Institute (SDI) design manual.
2. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length is 3 inches. If these minimum lengths are not provided, web crippling must be checked.

For the latest SDI standards and publications, please visit: ***sdi.org***

TYPE "S" (STANDARD FORM DECK)





Helpful Hint: Form deck is used when a non-composite slab is required and the clear span is short.

Section Properties (Fy=80 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
28	.0149	0.85	0.0116	0.0113	0.0356	0.037
26	.0179	1.02	0.014	0.0139	0.0449	0.045
24	.0238	1.30	0.0186	0.0186	0.0607	0.0602
22	.0295	1.55	0.0231	0.023	0.0747	0.0742

- Section properties calculated in accordance with AISI specifications

Maximum Construction Clear Spans

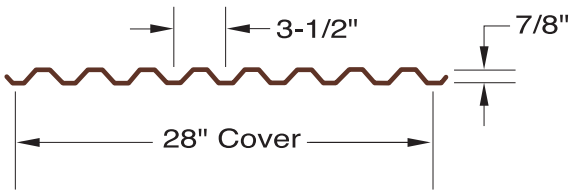
Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF			Weight PSF	LW Concrete 110 PCF		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
2.0″	28	23	2-3	2-10	2-11	17	2-4	3-0	3-0
	26	23	2-9	3-6	3-7	18	2-10	3-8	3-9
	24	23	3-5	4-6	4-6	18	3-7	4-8	4-9
	22	23	4-0	5-3	5-4	18	4-3	5-7	5-7
2.5″	28	29	2-2	2-9	2-10	22	2-3	2-10	2-11
	26	29	2-7	3-5	3-5	22	2-9	3-7	3-7
	24	29	3-3	4-3	4-4	22	3-6	4-6	4-7
	22	29	3-10	5-0	5-1	23	4-0	5-3	5-4
3.0″	28	35	2-1	2-8	2-8	27	2-2	2-10	2-10
	26	35	2-6	3-3	3-4	27	2-8	3-5	3-6
	24	35	3-1	4-1	4-2	27	3-4	4-4	4-5
	22	35	3-7	4-9	4-10	27	3-11	5-1	5-2
3.5″	28	41	2-0	2-7	2-7	31	2-1	2-9	2-9
	26	41	2-5	3-2	3-2	31	2-7	3-4	3-5
	24	41	3-0	3-11	4-0	32	3-2	4-2	4-3
	22	42	3-5	4-7	4-7	32	3-9	4-11	4-11
4.0″	28	47	1-11	2-6	2-7	36	2-1	2-8	2-8
	26	47	2-4	3-1	3-1	36	2-6	3-2	3-2
	24	47	2-10	3-9	3-10	36	3-1	4-1	4-1
	22	48	3-4	4-5	4-5	36	3-7	4-9	4-10
4.5″	28	53	1-10	2-5	2-6	40	2-0	2-7	2-8
	26	53	2-3	3-0	3-0	40	2-4	3-3	3-3
	24	53	2-9	3-8	3-9	41	3-0	3-11	4-0
	22	54	3-2	4-3	4-3	41	3-6	4-7	4-8
5.0″	28	59	1-10	2-5	2-5	45	1-11	2-6	2-7
	26	59	2-2	2-11	2-11	45	2-4	3-1	3-2
	24	59	2-8	3-7	3-7	45	2-11	3-10	3-11
	22	60	3-1	4-1	4-2	46	3-4	4-5	4-6

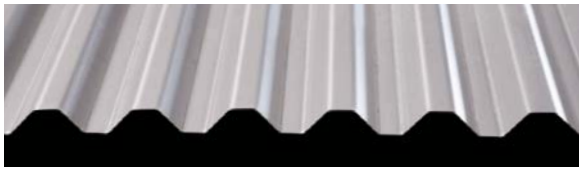
For the latest SDI standards and publications, please visit: ***sdi.org***

TYPE "S" *(STANDARD FORM DECK) continued...*

Span Condition	Gage	Design Criteria	Uniform Total Load in Pounds Per Square Foot (Dead and Live)								
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
One	28	36000	211	135	94	69	52	41	33		
		L/240	94	48	28						
		L/180	126	64	37	23					
	26	36000	267	171	118	87	66	52	42		
		L/240	114	58	33	21					
		L/180	152	77	45	28					
	24	36000	*	231	160	118	90	71	57	47	40
		L/240	151	77	45	28					
		L/180	202	103	60	37	25				
	22	36000	*	284	197	145	111	87	71	58	49
		L/240	188	96	55	35	23				
		L/180	251	128	74	46	31				
Two	28	36000	221	142	98	72	55	43	35		
		L/240	228	117	67	42	28	20			
		L/180	*	156	90	56	38	26			
	26	36000	270	173	120	88	67	53			
		L/240	275	140	81	51	34	24			
		L/180	*	187	108	68	45	32			
	24	36000		231	160	118	90	71	57	47	40
		L/240		187	108	68	45	32	23		
		L/180		249	144	91	61	42	31		
	22	36000		284	197	145	111	87	71	58	49
		L/240		232	134	84	56	39	29	21	
		L/180		*	179	113	75	53	38	29	
Three or More	28	36000	273	177	123	90	69	54	44		
		L/240	179	92	53	33	22				
		L/180	239	122	71	44	29				
	26	36000	*	216	150	110	84	66	54		
		L/240	216	110	64	40	27				
		L/180	288	147	85	53	36				
	24	36000	*	289	200	147	112	89	72	59	50
		L/240	287	147	85	53	35	25			
		L/180	*	196	113	71	47	33			
	22	36000		*	247	181	139	109	89	73	61
		L/240		182	105	66	44	31	22		
		L/180		243	141	88	59	41	30		

TYPE "HD" *(HEAVY DUTY FORM DECK)*





Helpful Hint: Heavy Duty form deck is used when the spans and loads exceed the capability of standard form deck.

Section Properties (Fy=80 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
26	.0179	1.10	0.0288	0.0288	0.0601	0.0605
24	.0238	1.40	0.0387	0.0386	0.0855	0.0855
22	.0295	1.60	0.048	0.048	0.1059	0.106
20	.0358	2.03	0.0583	0.0583	0.1277	0.1278

- Section properties calculated in accordance with AISI specifications

Maximum Construction Clear Spans

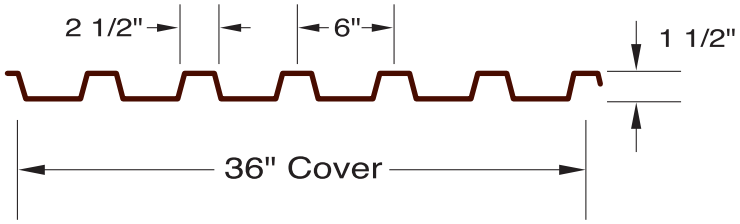
Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF			Weight PSF	LW Concrete 110 PCF		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
2.5″	26	24	3-5	4-6	4-6	18	3-9	4-10	4-11
	24	24	4-7	5-11	6-1	18	4-11	6-5	6-5
	22	24	5-4	7-0	7-1	19	5-8	7-5	7-7
	20	25	6-0	7-11	7-5	19	6-6	8-7	8-1
3.0″	26	30	3-4	4-4	4-5	23	3-6	4-7	4-8
	24	30	4-3	5-8	5-9	23	4-7	6-1	6-1
	22	30	4-11	6-7	6-7	23	5-5	7-1	7-2
	20	31	5-8	7-6	6-11	24	6-1	8-1	7-6
3.5″	26	36	3-2	4-2	4-3	27	3-5	4-5	4-6
	24	36	4-1	5-5	5-6	28	4-4	5-9	5-10
	22	36	4-9	6-3	6-1	28	5-1	6-9	6-8
	20	37	5-4	7-1	6-6	28	5-10	7-9	7-1
4.0″	26	42	3-0	4-0	4-1	32	3-3	4-3	4-4
	24	42	3-11	5-2	5-3	32	4-3	5-7	5-8
	22	42	4-6	6-0	5-10	32	4-11	6-6	6-5
	20	43	5-1	6-9	6-2	33	5-6	7-5	6-9
4.5″	26	48	2-11	3-10	3-11	36	3-2	4-2	4-3
	24	48	3-9	4-11	5-0	37	4-0	5-4	5-5
	22	49	4-3	5-9	5-7	37	4-8	6-3	6-1
	20	49	4-10	6-6	5-11	37	5-4	7-1	6-6
5.0″	26	54	2-10	3-9	3-9	41	3-1	4-0	4-1
	24	54	3-7	4-10	4-10	41	3-11	5-2	5-3
	22	55	4-1	5-4	5-4	42	4-6	6-0	5-10
	20	55	4-8	6-3	5-8	42	5-1	6-10	6-2
5.5″	26	60	2-9	3-8	3-8	46	2-11	3-11	3-11
	24	60	3-6	4-8	4-8	46	3-9	5-0	5-1
	22	61	3-11	5-4	5-2	46	4-4	5-10	5-8
	20	61	4-5	6-0	5-6	46	4-11	6-8	6-2

For the latest SDI standards and publications, please visit: ***sdi.org***

TYPE "HD" *(HEAVY DUTY FORM DECK) continued...*

Span Condition	Gage	Design Criteria	Uniform Total Load in Pounds Per Square Foot (Dead and Live)								
			3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
One	26	36000	165	121	93	73	59	49	41		
		L/240	74	46	31	22					
		L/180	99	62	41	29					
	24	36000	235	172	132	104	84	69	58		
		L/240	99	62	41	29	21				
		L/180	132	83	55	39	28				
	22	36000		214	163	129	104	86			
		L/240		77	52	36	26	20			
		L/180		103	69	48	35	26			
	20	36000			197	156	126	104			
		L/240			63	44	32	24			
		L/180			84	59	43	32			
Two	26	36000	171	125	96	76	61	50	42	36	31
		L/240	*	112	75	53	38	29	22		
		L/180	*	*	*	70	51	38	29		
	24	36000	233	171	131	103	84	69	58	49	42
		L/240	*	150	100	70	51	38	29	23	
		L/180	*	200	134	94	68	51	39		
	22	36000		211	162	128	103	85	72	61	52
		L/240		187	125	88	64	48	37	29	23
		L/180		*	167	117	85	64	49	38	31
	20	36000			196	154	125	103	87	74	64
		L/240			152	106	77	58	45	35	28
		L/180			*	142	103	78	60	47	37
Three or More	26	36000	213	157	120	95	77	63	53		
		L/240	140	88	59	41	30	22			
		L/180	187	118	79	55	40	30			
	24	36000		214	164	129	105	86	72	62	53
		L/240		118	79	55	40	30	23		
		L/180		157	105	74	54	40	31		
	22	36000		264	202	160	129	107	90	76	
		L/240		146	98	69	50	37	29	22	
		L/180		195	131	92	67	50	38	30	
	20	36000			245	193	156	129	108	92	80
		L/240			119	84	61	46	35	27	22
		L/180			159	112	81	61	47	37	29

TYPE "BI" *(TYPE "B" INVERTED FORM DECK)*



Also available in 30" cover

Helpful Hint: Type "BI" inverted form deck is used when the spans and loads exceed the capability of standard and heavy duty form decks.

Section Properties (Fy=33 ksi)

Gage	Design Thickness	Weight (psf) Glv	Ip (In^4)	In (In^4)	Sp (In^3)	Sn (In^3)
22	.0295	1.61	0.1891	0.1557	0.196	0.1876
20	.0358	2.04	0.2305	0.1999	0.2458	0.2315
18	.0474	2.70	0.3061	0.2854	0.3263	0.3132
16	.0598	3.20	0.3869	0.3801	0.4104	0.401

- Section properties calculated in accordance with AISI specifications

Maximum Construction Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF			Weight PSF	LW Concrete 110 PCF		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
3.5"	22	37	4-7	6-2	6-2	29	5-0	6-7	6-8
	20	38	5-5	7-3	7-4	29	5-10	7-10	7-11
	18	38	6-6	8-6	8-10	30	7-1	9-2	9-7
4.0"	22	43	4-5	5-10	5-11	33	4-9	6-4	6-5
	20	44	5-1	6-10	6-11	34	5-7	7-5	7-6
	18	44	6-2	8-1	8-5	34	6-9	8-10	9-1
4.5"	22	49	4-2	5-8	5-8	38	4-7	6-1	6-2
	20	50	4-11	6-7	6-8	38	5-4	7-2	7-3
	18	50	5-11	7-9	8-0	39	6-5	8-5	8-9
5.0"	22	55	4-0	5-5	5-6	42	4-5	5-11	6-0
	20	55	4-8	6-4	6-5	43	5-2	6-11	7-0
	18	56	5-7	7-5	7-8	43	6-3	8-2	8-5
5.5"	22	61	3-11	5-3	5-4	47	4-3	5-8	5-9
	20	62	4-6	6-1	6-2	47	5-0	6-8	6-9
	18	63	5-5	7-1	7-4	48	6-0	7-10	8-2
6.0"	22	68	3-9	5-1	5-1	52	4-2	5-6	5-7
	20	68	4-4	5-11	6-0	52	4-10	6-6	6-7
	18	69	5-2	6-10	7-1	53	5-9	7-7	7-10
6.5"	22	74	3-8	4-11	5-0	56	4-0	5-5	5-5
	20	74	4-3	5-9	5-9	57	4-8	6-3	6-4
	18	75	5-0	6-8	6-10	57	5-7	7-5	7-8

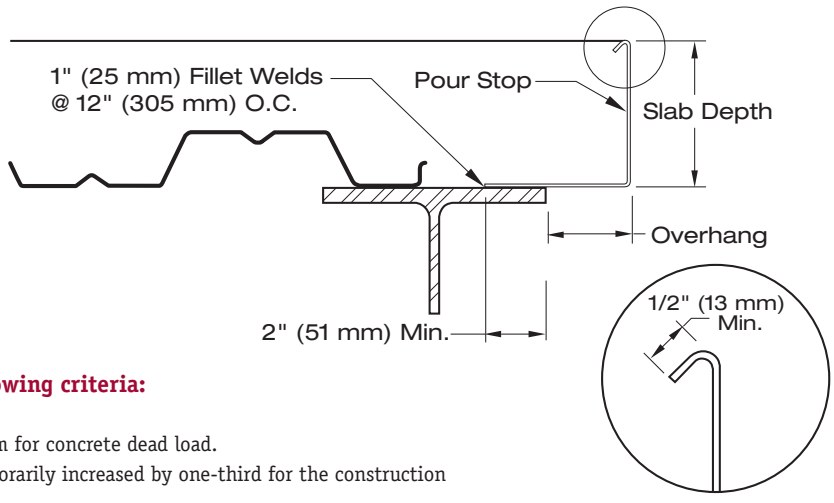
TYPE "BI" *(TYPE "B" INVERTED FORM DECK) continued…*

Span Condition	Gage	Design Criteria	Uniform Total Load in Pounds Per Square Foot (Dead and Live)								
			5′-0″	5′-6″	6′-0″	6′-6″	7′-0″	7′-6″	8′-0″	8′-6″	9′-0″
One	22	36000	101	83	70	60	51	45	39	35	
		L/240	98	74	57	44	36	29	24	20	
		L/180	*	*	*	59	48	39	32	26	
	20	36000	128	105	89	75	65	57	50	44	39
		L/240	120	90	69	54	43	35	29	24	20
		L/180	*	*	93	73	58	47	39	32	27
	18	36000	171	142	119	101	87	76	67	59	53
		L/240	160	120	92	72	58	47	39	32	27
		L/180	*	*	123	97	77	63	52	43	36
Two	22	36000	98	81	68	58	50	43	38	34	30
		L/240	*	*	*	*	86	70	58	48	40
		L/180	*	*	*	*	*	*	77	64	54
	20	36000	122	101	84	72	62	54	47	42	37
		L/240	*	*	*	*	*	*	70	59	49
		L/180	*	*	*	*	*	*	*	*	*
	18	36000	166	137	115	98	84	74	65	57	51
		L/240	*	*	*	*	*	*	*	*	*
		L/180	*	*	*	*	*	*	*	*	*
Three or More	22	36000	123	101	85	72	62	54	48	42	38
		L/240	*	*	*	85	68	55	45	38	32
		L/180	*	*	*	*	*	73	60	50	42
	20	36000	152	126	106	90	78	67	59	52	47
		L/240	*	*	*	103	83	67	55	46	39
		L/180	*	*	*	*	*	90	74	61	52
	18	36000	208	172	144	123	106	92	81	72	64
		L/240	*	*	*	*	110	89	74	61	51
		L/180	*	*	*	*	*	*	*	*	69

POUR STOP SELECTION TABLE FOR COMPOSITE STEEL FLOOR DECK

SLAB DEPTH (Inches)	OVERHANG (INCHES) POUR STOP TYPES												
	0	1	2	3	4	5	6	7	8	9	10	11	12
4.00	20	20	20	20	18	18	16	14	12	12	12	10	10
4.25	20	20	20	18	18	16	16	14	12	12	12	10	10
4.50	20	20	20	18	18	16	16	14	12	12	12	10	10
4.75	20	20	18	18	16	16	14	14	12	12	10	10	10
5.00	20	20	18	18	16	16	14	14	12	12	10	10	
5.25	20	18	18	16	16	14	14	12	12	12	10	10	
5.50	20	18	18	16	16	14	14	12	12	12	10	10	
5.75	20	18	16	16	14	14	12	12	12	12	10	10	
6.00	18	18	16	16	14	14	12	12	12	10	10	10	
6.25	18	18	16	14	14	12	12	12	12	10	10		
6.50	18	16	16	14	14	12	12	12	12	10	10		
6.75	18	16	14	14	14	12	12	12	10	10	10		
7.00	18	16	14	14	12	12	12	12	10	10	10		
7.25	16	16	14	14	12	12	12	10	10	10			
7.50	16	14	14	12	12	12	12	10	10	10			
7.75	16	14	14	12	12	12	10	10	10	10			
8.00	14	14	12	12	12	12	10	10	10				
8.25	14	14	12	12	12	10	10	10	10				
8.50	14	12	12	12	12	10	10	10					
8.75	14	12	12	12	12	10	10	10					
9.00	14	12	12	12	10	10	10						
9.25	12	12	12	12	10	10	10						
9.50	12	12	12	10	10	10							
9.75	12	12	12	10	10	10							
10.00	12	12	10	10	10	10							
10.25	12	12	10	10	10								
10.50	12	12	10	10	10								
10.75	12	10	10	10									
11.00	12	10	10	10									
11.25	12	10	10										
11.50	10	10	10										
11.75	10	10											
12.00	10	10											

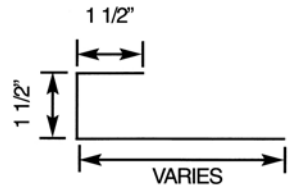
TYPES	DESIGN THICKNESS
20	.0358
18	.0474
16	.0598
14	.0747
12	.1046
10	.1345



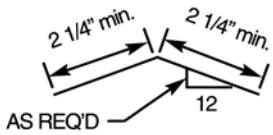
NOTES: The above Selection Table is based on the following criteria:

1. Normal weight concrete (150 pcf).
2. Horizontal and vertical deflection is limited to 1/4" maximum for concrete dead load.
3. Design stress is limited to 20 ksi for concrete dead load temporarily increased by one-third for the construction live load of 20 psf.
4. Pour Stop Selection Table does not consider the effect of the performance, deflection, or rotation of the pour stop support which may include both the supporting composite deck and/or the frame.
5. Vertical leg return lip is recommended for all gages.
6. This selection is not meant to replace the judgement of experienced Structural Engineers and shall be considered as a reference only.

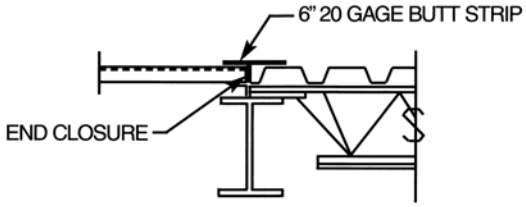
ACCESSORIES



CELL CLOSURE (20 GAGE MIN.)

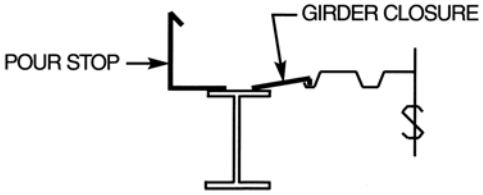


RIDGE AND VALLEY PLATE (20 GAGE MIN.)

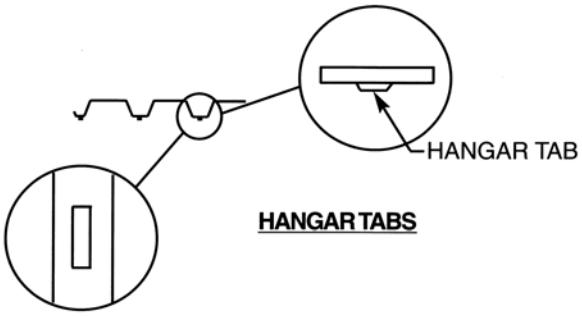


DETAIL WHERE DECK CHANGES DIRECTION

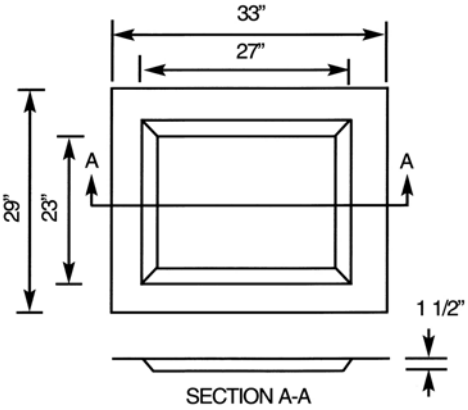
WELDING WASHERS 5/16" HOLE, 14 GAGE



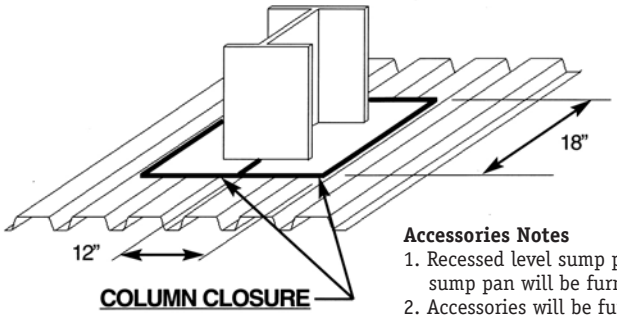
TYPICAL POUR STOP AND GIRDER CLOSURE APPLICATION



HANGAR TABS



RECESSED SUMP PAN LEVEL (14 GAGE MIN.) (HOLE CUT IN FIELD BY OTHERS)



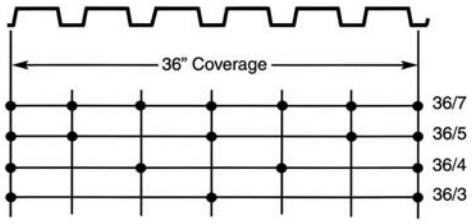
COLUMN CLOSURE

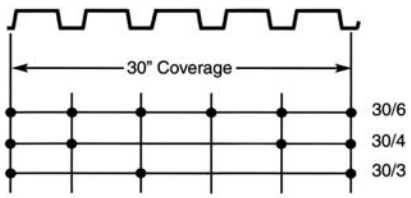
Accessories Notes

1. Recessed level sump pan is standard. Sloped sump pan will be furnished only when specified.
2. Accessories will be furnished in 10' lengths.
3. Accessories will only be furnished when ordered.
4. Tek screws are also available.
5. Hanger tabs available in all composite decks 20 gage and heavier.

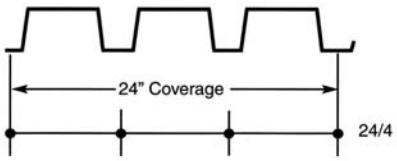
TYPICAL FASTENER LAYOUTS

1.5", Types "B", "F", "A" and 1.5" Composite

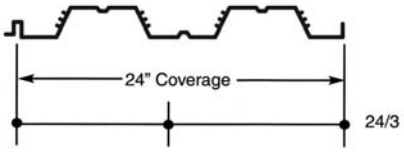




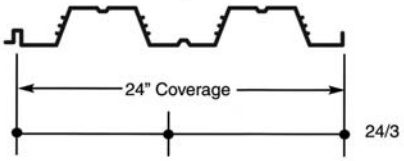
3", Type "N"



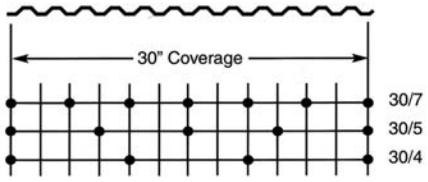
2" Composite



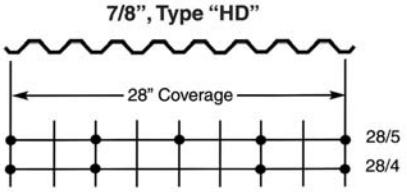
3" Composite



9/16", Type "S"



7/8", Type "HD"



Sidelap Fastening:
In general, if spans are less than 5'-0" sidelap fastening is not required. If spans are greater than 5'-0", deck is to be fastened at midspan or every 36", whichever is smaller.

DACS inc.

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